

DIESEL INSPECTION REPORT DATA SHEET

Ship Name/Hull #	OLYMPIC VENTURE (PTB 951)
Homeport	BANGOR, WA
Group Commander	SUBMARINE BASE BANGOR
Inspector(s)	[REDACTED]
Inspector's Duty Station	PSNS and IMF Port Operations Navy Region Northwest
Date of Last Inspection	2 - 4 February 2009
Date of Inspection	1 - 4 February 2011
Reason for Inspection	18-24 Months PMS

Engine Application	Engine Designation	Make/Model	Engine Serial #	HP/KW Rating	Engine Hours Since Ovhl	Total Engine Hours	Engine Hrs Since Last Insp
Main Propulsion Engine	STBD	Cummins VTA 28-2M CW	37109270	600 HP	5268	5268	549
Main Propulsion Engine	PORT	Cummins VTA 28-2M CW	37109271	600HP	5674	5674	538
Generator	#1 SSDG	DDA 2-71	A2A21425	20KW	6301	6301	313
Generator	#2 SSDG	DDA 2-71	A2A23006A	20KW	5164	5164	329

Inspection Finding	(RBO) Repair Before Operating
Appropriate Technical Manual	Cummins V, VT, VTA Service Manual
Type of Water Treatment	Ethylene Glycol
APL MPDE / SSDG	665060052 / 666010023

Enclosure (1)

[REDACTED]

ADMINISTRATIVE DISCREPANCY DATA SHEET

Ship Name/Hull #	OLYMPIC VENTURE (PTB 951)
Date of Inspection	1 - 4 February 2011

Discrepancy Category	Problem Area	Description of Problem	Recommended Corrective Action
ADMIN	#1 SSDG L/O PRESSURE GAUGE	#1 SSDG L/O Pressure Gauge has a special calibration of ± 5 psi. If the L/O pressure gauge indicates 7 psi while the alarm switch actuates at a set point of 12, then the reading of 7 psi is satisfactory. This is not an acceptable form of validating the alarm set point.	Testing of the Low Lube Oil pressure alarms should not be qualified with the installed gauge. The alarm testing should be done with a calibrated pressure test unit while isolated from the gauge. Coordinate with gauge calibration lab to test system with a portable test unit.

Enclosure (2)

ENGINE DISCREPANCY DATA SHEET

Ship Name/Hull #	OLYMPIC VENTURE (PTB 951)
Date of Inspection	1 - 4 February 2011

Discrepancy Category	Problem Area	Description of Problem	Recommended Corrective Action
RBO CDI	Steam leak	Main Steam leak into engine space.	Repair steam leak.
RBO CDI	Jacket Water Keep Warm Hoses	All Jacket Water Keep Warm Hoses exceed service life and Require replacement.	Replace hoses as per reference (j).
Major CDI	Fire Suppression System	Fire bottles exceed hydro test date.	Remove and retest bottles as per PMS.

RBO - Repair Before Operating
CDI - Corrected During Inspection

Enclosure (3)

TOLERANCE MEASUREMENT DATA SHEET

Ship Name/Hull #	OLYMPIC VENTURE (PTB 951)
Date of inspection	1 - 4 February 2011

NOTE

All tolerance measurements are in accordance with current PMS requirements and printed instructions. (NT notates Not Taken)

1. Turbochargers

#1 Starboard

#2 Port

Right Bank - SATISFACTORY

Right Bank - SATISFACTORY

Left Bank - SATISFACTORY

Left Bank - SATISFACTORY

2. Injection Timing

Specification: 47 to 70 inch-pounds torque.

#1 MPDE - 50 inch-pounds

#2 MPDE - 50 inch-pounds

3. Valve timing

Specification: Intake 0.014" Exhaust 0.028"

#1 MPDE-All valves checked and set in accordance with specification.

#2 MPDE-All valves checked and set in accordance with specification.

4. Injection timing and valve lash SSDG

Specification 0.011" to 0.013" Use Injector height tool 1.460"

#1 SSDG-All valves checked and set in accordance with specification.

#2 SSDG-All valves checked and set in accordance with specification.

Enclosure (4)

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OPERATIONAL TEST DATA SHEET SMALL HIGH SPEED ENGINE

Ship Name	OLYMPIC VENTURE (PTB 951)
Date	1 - 4 February 2011
Engine Designation	MPDE
Draft	5'
Hours Since Overhaul	#1 MPDE 5268 / #2MPDE 5674
Engine RPM	#1 MPDE 2150 / #2MPDE 2135

INDIVIDUAL CYLINDER PARAMETERS NOT TAKEN.
THESE ENGINES HAVE NO PROVISION FOR INDIVIDUAL CYLINDER MONITORING.

PRESSURES	Specification	#1 MPDE	#2 MPDE
Turbocharger boost pressure	0-25 psi	L/B 15 psi R/B 15 psi	L/B 15 psi R/B 15 psi
Lube oil pump pressure	50-90 psi	80 psi	80 psi
Fuel oil pump pressure	40-100 psi	80 psi	85 psi
Seawater pump pressure	5-30 psi	22 psi	20 psi

TEMPERATURES	Specification	#1 MPDE	#2 MPDE
Exhaust temps average °F	100° - 950°	L/B 700° R/B 700°	L/B 700° R/B 650°
Jacket water from engine	100°F - 195°	182°	182°
Lube oil temp from engine	100°F - 225°	178°	180°

Low Lube Oil Alarm

Specification: 20 psi ±2 psi

Actual:
#1 20 psi
#2 22 psi

High Jacket Water Alarm

#1 (Calibrated 5-04-10)
#2 (Calibrated 5-04-10)

Engine Over-speed

Specification: 2250- 2350 RPM

Actual:
#1 2263 RPM
#2 2295 RPM

Reduction Gear Lube Oil Alarm

Specification: 4 psi ± 0.5 psi

Actual:
#1: 4 psi
#2: 4 psi

Enclosure (5)
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OPERATIONAL TEST DATA SHEET SMALL HIGH SPEED ENGINE

Ship Name	OLYMPIC VENTURE (PTB 951)
Date	1 - 4 February 2011
Engine Designation	SSDG
KW	#1 SSDG 12.5 / #2SSDG 12.5
Amps	#1 SSDG 87 / #2SSDG 94
Volts	#1 SSDG 240 / #2SSDG 240
Hours Since Overhaul	#1 SSDG 5988 / #2SSDG 4835
Engine RPM	#1 SSDG 1150 / #2SSDG 1150

PRESSURES	Specification	#1 SSDG	#2 SSDG
Lube oil pressure	10-70 psi	20 psi	30 psi
TEMPERATURES		#1 SSDG	#2 SSDG
Jacket water from engine	130° - 185°	180°	170°

High Jacket Water Alarm

#1 (Calibrated 5-04-10)
#2 (Calibrated 5-04-10)

Low Lube Oil Alarm

Specification: 12 psi \pm 2 psi

Actual:
#1 11 psi
#2 11 psi